What is claimed is:

- 1. An electrochemical cell, comprising:
 - a) an anode;
- b) a cathode characterized as having been formed by a method consisting essentially of:
 - i) positioning a first electrode active material into a pressing fixture;
 - ii) positioning a current collector
 screen on top of the first electrode
 active material;
 - iii) positioning a second electrode
 active material different than the
 first electrode active material on
 top of the current collector screen,
 thereby forming an electrode
 assembly; and
 - iv) pressing the electrode assembly to
 form the electrode; and
 - c) a separator electrically insulating the anode from the cathode; and
 - d) an electrolyte activating the anode and the cathode.
- 25 2. The electrochemical cell of claim 1 wherein the first electrode active material is in a powder form having at least some particles sized to be able to move through at least one opening in the current collector screen and wherein the second electrode active material
- 30 is in a form incapable of moving through the at least one opening in the current collector screen, and the electrode assembly is characterized as having been

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pressed from the direction of the second electrode active material to the first electrode active material.

- 3. The electrochemical cell of claim 1 wherein the 5 second electrode active material is in a sheet or pellet form.
- 4. The electrochemical cell of claim 1 wherein with the second electrode active material in a powder form it is capable of moving through the at least one opening in the current collector screen.
 - 5. The electrochemical cell of claim 1 wherein the at least one opening is at least 0.004 inches in diameter.
 - 6. The electrochemical cell of claim 1 wherein the first and the second electrode active materials are selected from the group consisting of CF_x , Ag_2O_2 , CuF, Ag_2CrO_4 , MnO_2 , SVO, CSVO, V_2O_5 , $LiCoO_2$, $LiNiO_2$, $LiMn_2O_4$, CuO_2 , TiS_2 , Cu_2S , FeS, FeS₂, copper oxide, copper vanadium oxide, and mixtures thereof.
 - 7. The electrochemical cell of claim 1 wherein the anode is composed of lithium.
- 8. The electrochemical cell of claim 1 wherein the electrolyte includes a first solvent selected from the group consisting of tetrahydrofuran (THF), methyl acetate (MA), diglyme, trigylme, tetragylme, dimethyl carbonate (DMC), 1,2-dimethoxyethane (DME), 1,2-diethoxyethane (DEE), 1-ethoxy-2-methoxyethane

(EME), ethyl methyl carbonate, methyl propyl carbonate, ethyl propyl carbonate, diethyl carbonate, dipropyl carbonate, and mixtures thereof, and the second solvent is selected from the group consisting of propylene carbonate (PC), ethylene carbonate (EC), butylene carbonate, acetonitrile, dimethyl sulfoxide, dimethyl, formamide, dimethyl acetamide, γ -valerolactone, γ -butyrolactone (GBL), N-methyl-pyrrolidinone (NMP), and mixtures thereof.

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- 9. The electrochemical cell of claim 1 wherein the electrolyte includes a lithium salt selected from the group consisting of LiPF₆, LiBF₄, LiAsF₆, LiSbF₆, LiClO₄, LiO₂, LiAlCl₄, LiGaCl₄, LiC(SO₂CF₃)₃, LiN(SO₂CF₃)₂, LiSCN, LiO₃SCF₃, LiC₆F₅SO₃, LiO₂CCF₃, LiSO₆F, LiB(C₆H₅)₄ LiCF₃SO₃, and mixtures thereof.
- 10. The electrochemical cell of claim 1 wherein the current collector screens is selected from the group consisting of stainless steel, titanium, tantalum, platinum, gold, aluminum, cobalt nickel alloys, highly alloyed ferritic stainless steel containing molybdenum and chromium, and nickel-, chromium-, and molybdenum-containing alloys.

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11. The electrochemical cell of claim 1 wherein two of the pressed electrode structure are positioned back to back to provide the cathode having the configuration:

SVO/current collector screen/CFx/

30 current collector screen/SVO.

	12.	An electi	rochem	ical cell, comprising:
		a) an a	anode;	
		b) a ca	athode	characterized as having been formed
		by t	the me	thod consisting essentially of:
5			i)	positioning a first electrode active
				subassembly comprising a first
				electrode active material and a
				second electrode active material
				contacted to opposed sides of a
10				first current collector into a
				pressing fixture;
			ii)	positioning a third electrode active
				material different than either of
				the first and the second electrode
15				active materials on top of one of
				the first and the second electrode
				active materials of the first
				electrode active subassembly;
			iii)	positioning a second electrode
20				active subassembly comprising the
				first electrode active material and
				the second electrode active material
				contacted to opposed sides of a
				second current collector on top of
25				the third electrode active material
				to form an electrode assembly; and
			iv)	pressing the electrode assembly to

c) an electrolyte activating the anode and the cathode; and

form the electrode;

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- d) a separator electrically insulating the anode from the cathode.
- 13. The electrochemical cell of claim 12 wherein the
 third electrode active material is in a powder form
 having at least some particles sized to be able to move
 through at least one opening in the first and the second
 current collector screens.
- 10 14. The electrochemical cell of claim 12 wherein with the first and the second electrode active materials in a powder form, they are capable of moving through the at least one opening in the current collector screen.
- 15 15. A method for manufacturing an electrode, comprising the steps of:
 - a) positioning a first electrode active material into a pressing fixture;
 - b) positioning a current collector screen on top of the first electrode active material;
 - c) positioning a second electrode active material different than the first electrode active material on top of the current collector screen, thereby forming an electrode assembly; and
 - d) pressing the electrode assembly to form the electrode.
- 16. The method of claim 15 including providing the
 30 first electrode active material in a powder form having
 at least some particles sized to be able to move through

at least one opening in the current collector screen and providing the second electrode active material in a form incapable of moving through the at least one opening in the current collector screen, and pressing the electrode assembly from the direction of the second electrode active material to the first electrode active material.

- 17. The method of claim 15 including providing the second electrode active material in a sheet or pellet form.
- 18. The method of claim 15 wherein with the second electrode active material in a powder form it is capable of moving through the at least one opening in the current collector screen.
 - 19. The method of claim 15 including providing the current collector screen having the at least one opening being at least 0.004 inches in diameter.
 - 20. The method of claim 15 including selecting the first and the second electrode active materials from the group consisting of CF_x , Ag_2O , Ag_2O_2 , CuF, Ag_2CrO_4 , MnO_2 , SVO, CSVO, V_2O_5 , $LiCoO_2$, $LiNiO_2$, $LiMn_2O_4$, CuO_2 , TiS_2 , Cu_2S ,
- 25 FeS, FeS₂, copper oxide, copper vanadium oxide, and mixtures thereof.
- 21. The method of claim 15 wherein the anode is lithium, the first cathode active material is SVO, the second cathode active material is CF_x .

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- 22. A method for manufacturing an electrode, comprising the steps of:
 - a) positioning a first electrode active subassembly comprising a first electrode active material and a second electrode active material contacted to opposed sides of a first current collector into a pressing fixture;
 - b) positioning a third electrode active material different than either of the first and the second electrode active materials on top of one of the first and the second electrode active materials of the first electrode active subassembly;
 - c) positioning a second electrode active subassembly comprising the first electrode active material and the second electrode active material contacted to opposed sides of a second current collector on top of the third electrode active material to form an electrode assembly; and
 - d) pressing the electrode assembly to form the electrode.
- 23. The method of claim 22 including providing the third electrode active material in a powder form.
 - 24. The method of claim 22 including providing the first and second electrode active materials being either the same or different.

25. The method of claim 22 wherein with the first and the second electrode active materials in a powder form, they are capable of moving through the at least one opening in the current collector screen.

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- 26. The method of claim 22 including selecting the first, the second and the third electrode active materials from the group consisting of CF_x , Ag_2O , Ag_2O_2 , CuF, Ag_2CrO_4 , MnO_2 , SVO, CSVO, V_2O_5 , $LiCoO_2$, $LiNiO_2$,
- 10 LiMn_2O_4 , CuO_2 , TiS_2 , Cu_2S , FeS, FeS₂, copper oxide, copper vanadium oxide, and mixtures thereof.
- 27. The method of claim 22 including providing the first and the second current collector screens having openings that are at least 0.004 inches in diameter.
 - 28. The method of claim 22 including providing the cathode having the configuration:

SVO/current collector screen/SVO/CFX/SVO/current collector screen/SVO.